PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 00010-007WO1	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/US2008/071090	International filing date (day/month/year) 25 July 2008 (25.07.2008)	Priority date (day/month/year) 26 July 2007 (26.07.2007)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant CALIFORNIA PACIFIC MEDICAL CENTER					

 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a). This REPORT consists of a total of 5 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead. This report contains indications relating to the following items:						
In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead. 3. This report contains indications relating to the following items: Box No. I Basis of the report Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application An observational Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority	1.					
3. This report contains indications relating to the following items: Box No. I Basis of the report	2.	This REPORT consists of a total of 5 sheets, including this cover sheet.				
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not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority		Box No. VIII	Certain observations on the international application			
	4.	not, except where the applicant n				

	Date of issuance of this report 26 January 2010 (26.01.2010)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Philippe Becamel
Facsimile No. +41 22 338 82 70	e-mail: pt12.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: BAKER, Jr., Joseph R.	PCT			
Gavrilovich, Dodd & Lindsey LLP 4445 Eastgate Mal 200 San Diego California 92121 USA	l, Suite WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
	(PCT Rule 43bis.1)			
	Date of mailing (day/month/year) 02 DECEMBER 2008 (02.12.2008)			
Applicant's or agent's file reference 00010-007WO1	FOR FURTHER ACTION See paragraph 2 below			
PCT/US2008/071090 25 JULY :	filing date (day/month/year) Priority date(day/month/year) 2008 (25.07.2008) 26 JULY 2007 (26.07.2007)			
International Patent Classification (IPC) or both national	il classification and IPC			
C12M 1/40(2006.01)i, C12Q 1/58(2006.01)i				
Applicant				
CALIFORNIA PACIFIC MEDICAL CEN	VTER et al			
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion				
3. For further details, see notes to Form PCT/ISA/220.				
Korean Intellectual Property Office	DECEMBER 2008 (02.12.2008) Authorized officer JEONG, JAE CHEOL			

Facsimile No. 82-42-472-7140

Telephone No.82-42-481-8385



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/071090

Box No. I Basis of this opinion	
1. With regard to the language, this opinion has been established on the basis of:	
the international application in the language in which it was filed	
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))	
2. This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))	
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:	
 a. type of material a sequence listing table(s) related to the sequence listing 	
b. format of material on paper in electronic form	
c. time of filing/furnishing contained in the international application as filed. filed together with the international application in electronic form. furnished subsequently to this Authority for the purposes of search.	
4. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
5. Additional comments:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/071090

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of: the entire international application claims Nos. 1-45 because: the said international application, or the said claims Nos. relate to the following subject matter which does not require an international search (specify): The subject matter of claims 1-44 does not require an opinion with respect to industrial applicability as it is directed to a diagnostic method (Rules 43 bis.1(b), Rule 67.1(iv)). the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify): the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify): no international search report has been established for said claims Nos. 19, 22, 45 a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit: furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Istructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Istructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13ter.1(a) or (b). a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it. the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/071090

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	None	YES
	Claims	46, 47	NO
Inventive step (IS)	Claims	None	YES
	Claims	46, 47	NO
Industrial applicability (IA)	Claims	46, 47	YES
	Claims	None	NO NO

2. Citations and explanations:

Reference is made to the following documents:

D1: US 20050014165 A1 (LEE, N.M.) 20 January 2005

D2: US 6423491 B1 (HOWE, J.R.) 23 July 2002

The present invention relates to a kit for determination of a gastrointestinal disease or disorder by carrying out detection of a FHSH biomarker panel, a polyp biomarker panel, a senser biomarker panel, a rectal bleeding biomarker panel or any combination thereof.

D1 provides a panel of biomarkers and a kit for analysis of colorectal cancer and colorectal polyps. The panel has been used to assess changes in human tissue from surgical and biopsy samples against normal human control panel of biomarkers.

D2 shows the identification of the gene responsible for familial juvenile polyposis. Defects in this gene are associated with a predisposition to gastrointestinal cancers.

Novelty & Inventive Step (PCT Article 33(2) & 33(3))

D1, which is considered to be the closest state of the art to claims 46 and 47 of the present application, discloses a kit and a panel of biomarkers for analysis of colorectal cancer and colorectal polyps and the panel of D1 has been used to assess changes in human tissue from surgical and biopsy samples against normal human control panel of biomarkers. Accordingly, D1 is the same as claims 46 and 47 of the present application in the constitution of the invention. Therefore, claims 46 and 47 do not meet the requirements of novelty and inventive step set forth in PCT Article 33(2) and 33(3).

Industrial Applicability

Claims 46 and 47 meet the requirements for industrial applicability in PCT Article 33(4).